INDEX TO VOLUME 43

Absorption spectrum maxima, The isolation of bacterial carotenoid pigments and the determination of their absorption by. Abstract 27
Acetone-butanol fermentation, Bacteriophage infection of the. Abstract. (No abstract.) 644
Acid and alkali production, Variability in, by bacilli grown on 3 types of peptone. Abstract 26
Ackerman, Helen, Carpenter, Charles M., Stokinger, Herbert E., and Warren, Stafford L. Abstract 75
—, Stokinger, Herbert E., and Carpenter, Charles M. Abstract 76
Actinomycetes, Incidence of bacteriolytic properties among. Abstract 10
—, Variation in, due to amount of inoculum. Abstract 26
Actinomycin A, Effects of tyrothricin and, upon bacteriophage and bacterial toxins and toxin-like substances. Abstract 10
Actinomycosis, The source of infection in 193
Adler, Jacob, Kahn, Reuben L., Marcus, Stanley, and McDermott, Elizabeth B. Abstract 95
Aerobacter aerogenes and *Escherichia coli var. acidilactici* as causes of mortality in turkeys. Abstract 646
Aerobic bacteria, Quantitative spectrochemical analysis of vegetative and spore cells of. Abstract 25
Aerobic spore-forming bacilli. Studies of the common. I. Staining for fat with Sudan black B-safranin 717
—, sporeforming bacilli, A new procedure for identification of, commonly encountered by medical bacteriologists. Abstract 101
Ageing without reproduction and the viability of young bacterial cells at low temperatures 749
Agglutinins, *Streptococcus agalactiae*, in bovine blood serum and whey. Abstract 779
Air centrifuge performance. Abstract 30
Aisenberg, M. S. Abstract 120
Alcohol oxidation by photosynthetic purple bacteria. Abstract 8
Alcohols and phenols, An experimental study of the influence of temperature on the bactericidal activities of 521
Alfalfa silage, The fermentation of, preserved with molasses, phosphoric acid, salt and inoculation. Abstract 59
Alford, John A., and McCleskey, C. S. Abstract 24
Aliphatic amine acetates, The germicidal properties of high-molecular-weight. Abstract 53
Alture-Werber, E., Rake, Geoffrey, van Dyke, H. B. and Walker, H. A. Abstract 645
Amylases produced by *Bacillus macerans* and *Bacillus polymyxa* 527
Anaerobes, acid-forming, Powdered grass as an enrichment medium for 463
—, butyric-acid-forming, Further studies on the use of plant materials as enrichment media for 473
Anaerobic bacteria of intestinal origin, Growth of non-sporulating, in synthetic media. I. General requirements and special importance of pyruvic acid 155
— —, The gram-positive, nonsporulating, of the intestine and their relation to the known intestinal and other lactobacilli. Abstract 35
— media, Comparative studies of the growth of *Clostridium thermosaccharolyticum* and *Clostridium sporogenes* in various. Abstract 38

Anaerogenic derivatives of papillae-forming strains of *Escherichia coli-mutabile*. Abstract 19
Anderson, Thomas F., and Morton, Harry E. Abstract 64
— and Mudd, Stuart. Abstract. (No abstract.) 266
—, and Polevitzky, Katherine A. Abstract 66
Andrews, Helen M., Laboratory aids in the diagnosis of tuberculosis in the general hospital. Abstract 774
Animal sera, Importance of identification of the gonococcus from cultures and the effect of certain, on the fermentations of the gonococcus 733
Anthrax, An outbreak of, in mink. Abstract. (No abstract.) 115
Antibacterial action, The, of penicillin. Abstract 11
— drug action, Mechanism of. Abstract 68
— factors of human saliva, Studies on the 573
Antibodies, Demonstration by the electron microscope of the combination of, with flagellar and somatic antigens. Abstract. (No abstract.) 266
Antigen, A laboratory evaluation of a combined, for diphtheria and whooping cough prophylaxis. Abstract 81
— -coated bacteria, Detection of neurotropic virus "antibody" by the agglutination of. Abstract 116
— Comparison of crystal-violet, thiosulphate antigen and the tube method in testing *S. pullorum* sera. Abstract 58
Antigenic characters of *B. mesentericus* and *B. subtilis*, Investigations into the. 305
— fraction, An, separated from broth cultures of *Neisseria gonorrhoeae*. Abstract 76
— properties, A study of the, of *Hemophilus pertussis* and related organisms. II. Protection and cross-protection tests in mice. Abstract 78
Antigens, Demonstration by the electron microscope of the combination of antibodies with flagellar and somatic. Abstract. (No abstract.) 266
Anti-pertussis serum, Potency determination of, by the mouse-protective test. Abstract 80
Antiseptic action, Recent developments in the study of. Abstract 62
Antiseptics, Inhibition of, by structurally related compounds. Abstract 13
Anti-syphilitic, Experimental studies on the value of clorarsen as an. Abstract 645
Anti-tubercle bacillus serum, Immune reactions with. Abstract 642
Antitoxin, Studies on diphtheria toxin and its reaction with 273
Anzulovic, J. V., and Reedy, R. J. Abstract 44
Arginine, The hydrolysis of, by streptococci 651
Army, Preventive medicine in the. Abstract 648
Aspergillus flavus, Antibacterial filtrates from a strain of. Abstract 12
—*oryzae* diastase, malt diastase, and pepsin, The effect of, on antitoxic and normal plasma. Abstract 30
Autotrophic sulphur bacteria, The presence of growth factors in the cells of the. Abstract 7
Avidin, The use of, in studies on the biotin requirement of microorganisms. Abstract 5
Azotobacter cells, Large scale production of, for the preparation of cell-free enzymes. Abstract 60
—, Properties of hydrogenase in. Abstract 7

Bacilli, Variability in acid and alkali production by, grown on 3 types of peptone. Abstract 26
Bacillus albolactis, The quality of milk in a large section of Virginia as affected by the constant occurrence of *Streptococcus lactis* variety *tardus* and. Abstract 61

Bacillus aterrimus and *Bacillus niger*, The relation of, to *Bacillus subtilis*. Abstract ... 55
— *macerans* and *Bacillus polymyxa*, Preparation and properties of the amylases produced by ... 527
— *niger*, The relation of *Bacillus aterrimus* and, to *Bacillus subtilis*. Abstract ... 55
— *polymyxa*, Preparation and properties of the amylases produced by *Bacillus macerans* and ... 527
— *subtilis*, The relation of *Bacillus aterrimus* and *Bacillus niger* to. Abstract 55
Bacterial flora, The relationship between quality and, of Virginia flue-cured tobacco. Abstract ... 41
— growth *in vitro*, Experiments with collodion sacs on inhibition of. Abstract ... 775
Bactericidal action, Selective bacteriostatic and, of various substances of microbial origin. Abstract ... 9
— activities of alcohols and phenols, An experimental study of the influence of temperature on the ... 521
— substances, The isolation from soil of spore-forming bacteria which produce. 253
Bacteriological Technic, Report of the Committee on: Progress during 1941 .. 2
Bacteriology in France today. Abstract. (No abstract.) ... 644
— in the enforcement of the Federal Food, Drug, and Cosmetic Act. Abstract ... 269
Bacteriolytic properties, Incidence of, among actinomycetes. Abstract 10
Bacteriophage infection of the acetone-butanol fermentation. Abstract. (No abstract.) ... 644
— The loss of H antigens of *Salmonella poona* through the action of. Abstract 102
Bacteriophages, The use of, in infected wounds and their sequelae. Abstract. 67
Bacteriostatic activity, Comparative, of penicillin and gramicidin. Abstract. 12
— and bactericidal action, Selective, of various substances of microbial origin. Abstract ... 9
Bacterium tularense, Fermentation of sugars by ... 343
Baker, J. A. Abstract ... 89
Baker, Muriel, Stuart, C. A., Zimmerman, Alice, and Rustigian, Robert ... 557
"Balloon bodies," Two aspects of: their role and vitamin acceleration. Abstract ... 15
Bang, Frederick. Abstract ... 646
Barker, H. A., and Beck, J. V. ... 291
—, and Taha, S. M. ... 347
Barrera, S. E., Kopeloff, L. M., and Kopeloff, N. Abstract ... 98
Beattie, H. G., and Pederson, C. S. Abstract ... 115
Bechdel, S. I., Malzahn, R. C., and Stone, R. W. Abstract ... 59
Beck, J. V., and Barker, H. A. ... 291
Berens, Conrad, and Chapman, George H. Abstract ... 107
Berkman, Sam, Dorfman, Albert, and Koser, Stewart A. Abstract ... 6
Bernheim, Frederick, and Saz, Arthur K. Abstract ... 31
Bernheimer, A. W., Gillman, W., Hottle, G. A., and Pappenheimer, A. M .. 495
—, and Pappenheimer, A. M., Jr. Abstract ... 4
—, and Pappenheiner, A. M. ... 481
Bernstein, Leo H. T. Abstract ... 50
Berry, G. P., Evans, C. A., and Slavin, H. B. Abstract. (No abstract.) .. 116
—, VanKesteren, Mary, and Bibby, Basil G. ... 573
Beverage glasses, Sanitization of. Abstract ... 114
Bibby, Basil G., VanKesteren, Mary, and Berry, George Packer ... 573
Bicking, Margaret M., Landy, Maurice, Dicken, Dorothy M., and Mitchell, Winifred R. Abstract ... 5

Biologic false positives, Basis of, in serology of syphilis. Abstract 95
Biological characteristics of organisms of the pleuropneumonia group, Observations on some 211
Biotin as a growth factor for rhizobia 329
— requirement of microorganisms, The use of avidin in studies on the. Abstract 5
—, The importance of, in microbiology. Abstract. (No abstract.) 641
Birkeland, J. M., and Green, T. W. Abstract 641
Blood agar, A dehydrated medium to supplant meat infusion as a base for. Abstract 33
— and plasma, Use of sulfonamide drugs in the preservation of stored. Abstract 268
— protein response in tuberculosis, Electrophoretic analysis of the. Abstract. 266
B. mesentericus and *B. subtilis*, Investigations into the 305
Bohls, S. W., and Irons, J. V. Abstract 122
Boisvert, Paul L. Abstract. (No abstract.) 644
Bondi, A., Flosdorf, E. W., and Dozois, T. F. Abstract 265
—, Flosdorf, E. W., Felton, H., McGuinness, A. C., Dozois, T. F., and Mudd, S. Abstract 79
Borrelia recurrentis, Antigenic variation of, in the relapse phenomenon in the white rat. Abstract. (No abstract.) 124
Branham, Sara E. Abstract. (No abstract.) 270
Braun, Armin C., and Elrod, R. P. Abstract 40
— and Elrod, R. P. Abstract. (No abstract.) 646
Brewer, John H. Abstract 36
Broadhurst, Jean, and MacLean, Estelle. Abstract 15
Brode, Wallace R., Stahly, Grant L., and Sesler, Clara L 149
Brom, Thomas McP. Abstract. (No abstract.) 120
Brooke, Wallace S. Abstract. (No abstract.) 270
Brown, J. Howard. Abstract 16
Brown, Thomas McP., and Hayes, Guy S. Abstract 82
Brown, W. H., and Ellikey, P. R. Abstract 118
Browne, H. H 315
Bruce, R. A., and Dascomb, H. E. Abstract. (No abstract.) 116
Brucella abortus in vitro, The effect of sulfanilylguanidine on. Abstract 265
—, Capsule formation in genus. Abstract. (No abstract.) 648
Brunstetter, B. C., Curran, H. R., and Myers, A. T. Abstract 25
B. subtilis, Investigations into the antigenic characters of *B. mesentericus* and 305
Buchbinder, Leon, Solowey, Mathilde, and Solotorovsky, Morris 545
Bunney, W. E., and Holm, August. Abstract 80
Bunting, Mary I 593
— and Ingraham, Laura J 585
Bunyea, Hubert, and MacDonald, Angus D. Abstract 646
Burdon, Kenneth L. Abstract 101
Burdon, Kenneth L., Stokes, Julia C. and Kimbrough, Cecil E 717
Burris, Robert H., Lee, Sylvan B., and Wilson, P. W. Abstract 60
—, and Wilson, P. W. Abstract 7
Butyl-butyric anaerobes, The morphology of. Abstract 37

Campbell, E. P., Grainger, T. H., and Gibson, E. V. Abstract 265
Candida krusei, Influence of a film yeast, on the heat resistance of certain lactic acid bacteria grown in symbiosis with it 181
Caproic acid, *Clostridium kluyverii*, an organism concerned in the formation of, from ethyl alcohol 347

Capsule formation in genus *Brucella*. Abstract. (No abstract.) 648
Carbohydrate, The metabolism of, during the early stages of growth of pathogenic bacteria. Abstract 29
Carbon dioxide, Modification of Holden's gasometric method for determination of, formed by yeast action and application to sugars in various combinations in biological media. Abstract 773
Carotenoid pigments, The isolation of bacterial, and the determination of their absorption spectrum maxima. Abstract 27
Carpenter, Charles M., Stokinger, Herbert E., and Ackerman, Helen. Abstract 76
—, Stokinger, Herbert E., Ackerman, Helen, and Warren, Stafford L. Abstract 75
Casman, A. P. Abstract. (No abstract.) 648
—. Abstract 33
Castell, Charles H. 463, 473
Catalase production, A study of oxygen absorption and, during growth of *Chaetomium globosum* on cotton fiber and yarn 171
—, The inhibition of bacterial, by sodium azide. Abstract 27
Catarrh, mouse, Infection and immunity in 229
Cations, Effect of, on growth of certain pathogenic fungi. Abstract 16
Cellulose, A preliminary report upon aerobic decomposition of, by thermophilic bacteria. Abstract 777
—-decomposing bacterium, The isolation and culture of a, from the rumen of cattle. Abstract 122
Central New York Branch, S.A.B. Proceedings 113
Cereals, Studies on the microbiological assay of riboflavin in foodstuffs with special reference to. Abstract 3
Chaetomium globosum, A study of oxygen absorption and catalase production during growth of, on cotton fiber and yarn 171
Chaffee, Eleanor, Hobby, Gladys L., Meyer, Karl, and Dawson, Martin H. Abstract 11
Chapman, George H. 313
Chapman, George H. Abstract 105
—, and Berens, Conrad. Abstract 107
—, and Stiles, Merritt H. Abstract 64
Cheese, brick, The bacteria in, during ripening. Abstract 45
—, brick, The bacteria involved in the ripening of. Abstract. (No abstract.) 123
— defects and cheese diseases. Abstract 46
— diseases, Cheese defects and. Abstract 46
Cherry, W. Bailey. Abstract 49
Christensen, L. R. Abstract 62
Chromobacterium violaceum, A study of secondary colonies of. Abstract 29
Chromogenic spore-forming anaerobic bacteria, Isolation of. Abstract 35
Climenko, David R. Abstract 775
Clorarsen, Experimental studies on the value of, as an anti-syphilitic. Abstract 645
Clostridia of gas gangrene, Wilson-Blair medium in the rapid diagnosis of the 685
Clostridium acidi-urici and *Clostridium cylindrosporum*, organisms fermenting uric acid and some other purines 291
— *cylindrosporum*, *Clostridium acidi-urici* and, organisms fermenting uric acid and some other purines 291
—, Isolation of a new, producing a blue pigment. Abstract 117

— *kluyverii*, an organism concerned in the formation of caproic acid from ethyl alcohol 347
— *pasteurianum*, Cytological changes occurring in, during spore formation. Abstract 777
— *sporogenes*, Comparative studies of the growth of *Clostridium thermosaccharolyticum* and, in various anaerobic media. Abstract 38
— *tetani*, Growth requirements of 763
— *thermoaceticum*, A new type of glucose fermentation by 701
— *thermosaccharolyticum* and *Clostridium sporogenes*, Comparative studies of the growth of, in various anaerobic media. Abstract 38
CO_2, Effect of, on the growth rate of the pneumococcus 387
Coagulase activity of staphylococci, Comparison of solid and liquid media for testing the. Abstract 107
Coates, Margaret S., and Thompson, R. L. Abstract 90
Coburn, Don R. and Wetmore, Psyche W. Abstract. (No abstract.) 646
Coffey, Julia M. Abstract 773
Cohen, Barnett, and Halbert, Seymour P. Abstract 93
—, Halbert, S. P. and Perkins, M. E. 607
Cohen, Victor L. Abstract 115
Colien, Francis E. Abstract 47
Coliform and related bacteria, Eijkman relationships of the 557
— bacteria, A comparison of presumptive tests for, in seawater and shellfish. Abstract 48
— —, Problems in classifying. Abstract. (No abstract.) 115
— organisms, Presence and significance of, in frozen eggs. The microbiology of frozen eggs. I. Abstract 47
Collodion sacs, Experiments with, on inhibition of bacterial growth *in vitro*. Abstract 775
Colon-typhoid-dysentery group, Effects of sulfanilamide, sulfapyridine, sulfathiazole and sulfanilylguanidine upon. Abstract 13
Color variants, Factors affecting the distribution of, in ageing broth cultures of *Serratia marcescens* #274 593
— —, The distribution of, in ageing broth cultures of *Serratia marcescens* #274 585
Concentrates, The preparation of, and their action on red cells. Pneumococcal hemolysin 607
Conn, H. J., Chairman; J. H. Brown, Victor Burke, Barnett Cohen, M. W. Jennison, J. A. Kennedy, A. J. Riker and C. H. Werkman, Members 2
Connecticut Valley Branch, S.A.B. Proceedings 642, 778
Convulsive seizures, The experimental production of chronic, in animals. Abstract 98
Cook, E. B. M., and Sigel, M. M. Abstract 122
Cook, Josephine D. Abstract 776
Cotton, Cornelia. Abstract. (No abstract.) 648
Crab meat, A rapid test for the estimation of *E. coli* in. Abstract 44
— —, Pasteurization of. Abstract 44
Crecelius, H. G. and Rettger, Leo F. Abstract 20
Cromwell, Hobart W., and Leffler, Ruth. Abstract 51
Culture medium, Adaptability of silica gel as a 317
Cunningham, Lorna, and Plastridge, W. N. Abstract 779
Curran, H. R., Brunstetter, B. C., and Myers, A. T. Abstract 25
—, and Evans, Fred R. 125
Cynomolgus monkeys, Behavior of poliomyelitis virus in, infected by the oral route. Abstract 86
Cytological changes occurring in *Clostridium pasteurianum* during spore formation. Abstract 777

Dates, Yeasts occurring on 689
Dawson, Martin H., Hobby, Gladys L., Meyer, Karl, and Chaffee, Eleanor. Abstract 11
Dean-Webb method, Use of the photronreflectometer in precipitin titrations of a multiple-antigen multiple-antibody mixture by the. Abstract 95
Decomposition, Bacterial, of Vitamin C. Abstract 643
Dehydrated medium, A, to supplant meat infusion as a base for blood agar. Abstract 33
Detoxification, The, of meningococcus by urea. Abstract 77
Dettwiler, H. A. Abstract 92, 119
Diachun, Stephen, Valleau, W. D. and Johnson, E. M. Abstract 271
Diagnostic media, A study of methods used for inhibition of the growth of *Proteus* on. Abstract 23
Dibenzanthracene, 1:2:5:6-, The effect of, on *E. coli* bacteriophage. Abstract 272
Dicken, Dorothy M., Landy, Maurice, Bicking, Margaret M., and Mitchell, Winifred R. Abstract 5
Dienes, Louis. Abstract 81
Diets, Stomach and intestinal flora of guinea pigs receiving ordinary stock and special. Abstract 20
Dingle, John H., Seidman, Leah R., and Fothergill, LeRoy D. Abstract 97
—, and Thomas, Lewis. Abstract 99
Diphtheria and whooping cough prophylaxis, A laboratory evaluation of a combined antigen for. Abstract 81
— toxin and its reaction with antitoxin, Studies on 273
Disinfectants, A method for determining the tissue toxicity of. Abstract 641
— of the quaternary ammonium type, The decrease in bactericidal activity of, in the presence of agar. Abstract 778
Disinfection tests, A stabilized spore suspension for. Abstract 53
Dissociation studies, The use of, in the identification of a mucoid streptococcus from a trickling filter as *Streptococcus salivarius*. Abstract 59
Dorfman, Albert, Berkman, Sam, and Koser, Stewart A. Abstract 6
—, Rice, Lester, and Koser, Stewart A. Abstract 69
Dorner, W. Abstract 46
Douglas, J. R., and Wheeler, C. M. Abstract 120
Downs, Cornelia M. Abstract 102
Dozois, T. F., Flosdorf, E. W. and Bondi, A. Abstract 265
—, —, Felton, H., McGuinness, A. C., Bondi, A., and Mudd, S. Abstract 79
Dubos, Rene J. Abstract 77
Duffy, Carl E., and Sabin, Albert B. Abstract 88, 642
Dunham, Wolcott B. Abstract 90
—, and MacNeal, Ward J. Abstract 85

Eastern Missouri Branch, S. A. B. Proceedings 116
— New York Branch, Proceedings 409, 773
— Pennsylvania Branch, S. A. B. Proceedings 265
E. coli bacteriophage, The effect of 1:2:5:6-dibenzanthracene on. Abstract 272
—, Further observations on the origin of, in the human intestine. Abstract 21
Egg inoculator, An, for virus culture. Abstract 90
— white, Bacteriological studies on the "natural" fermentation process of preparing, for drying. Abstract 47
Eggs, frozen, The microbiology of. I. Presence and significance of coliform organisms in frozen eggs. Abstract 47
Eh, Gradients of, in liquid mediums. Abstract 34
Eichorn, A. Abstract. (No abstract.) 270

Eijkman relationships of the coliform and related bacteria..... 557
Eldering, Grace. Abstract..... 78
Electron microscope, Demonstration by the, of the combination of antibodies with flagellar and somatic antigens. Abstract. (No abstract.)..... 266
— —, RCA, Observations on the morphology of *Leptospira* and the Nichols' strain of *Treponema pallidum* with the aid of the. Abstract..... 64
— —, The morphology of various bacterial forms, some of pathogenic significance in oral infections, as shown by the. Abstract..... 66
Electrophoretic analysis of the blood protein response in tuberculosis. Abstract..... 266
Ellikey, P. R., and Brown, W. H. Abstract..... 118
Elrod, R. P. and Braun, A. C. Abstract. (No abstract.)..... 646
—, and Braun, Armin C. Abstract..... 40
E. M. B. agar, Mode of selective action of, in differentiation within the enteric group. Abstract..... 121
Encephalitis virus, St. Louis, Susceptibility of rats to. Abstract..... 88
— —, St. Louis, Behavior of, in rats. Abstract..... 88, 642
Encephalomyelitis virus, equine, Neutralizing antibodies in the cerebrospinal fluid in relation to cerebral resistance to. Abstract..... 83
Enders, John F., and Liu, P. Y. Abstract..... 91
Enrichment media, Further studies on the use of plant materials as, for butyric-acid-forming anaerobes..... 473
— medium, Powdered grass as an, for acid-forming anaerobes..... 463
Enteric group, Mode of selective action of E. M. B. agar in differentiation within the. Abstract..... 121
Enterococcus, An acetyl choline producing. Abstract..... 779
Environments, Studies on microorganisms in simulated room. VII. Further observations on the survival rates of streptococci and pneumococci in daylight and darkness..... 545
Enzymatic hydrolysate of casein, The use of, as a medium for the preparation of intravenous staphylococcus bacteriophage. Abstract..... 106
Enzymes, Large scale production of *Azotobacter* cells for the preparation of cell-free. Abstract..... 60
—, Respiratory, of bacteria in relation to different gaseous environments. Abstract..... 779
Erysipelothrix and *Listerella*, Some growth requirements of..... 629
— infection, Potency titration of antiserum for, by means of mouse-protective test. Abstract..... 57
Escherichia coli, A rapid test for the estimation of, in crab meat. Abstract.. 44
— —, Effects on, of adding thiamin to vitamin-free culture medium. Abstract..... 15
— — -mutabile, Anaerogenic derivatives of papillae-forming strains of. Abstract..... 19
— —, The effect of potassium tellurite on the dehydrogenases of. Abstract 643
— —, The selective inhibition by sulfonamides of certain enzymes of. Abstract..... 68
— — *var. acidilactici*, *Aerobacter aerogenes* and, as causes of mortality in turkeys. Abstract..... 646
Ethyl alcohol, *Clostridium kluyverii*, an organism concerned in the formation of caproic acid from..... 347
Evans, Alice C., and Sockrider, Elsie M. Abstract..... 62
Evans, C. A., Slavin, H. B., and Berry, G. P. Abstract. (No abstract.)... 116
Evans, Fred R. and Curran, Harold R..... 125

Feinstone, W. Harry, Williams, Roger D., and Florestano, H. J. Abstract.. 75
Fellers, C. R., Tarkow, L., and Levine, A. S. Abstract..... 55
Fellowes, O. N., and Norton, Edna M. Abstract..... 37
Felsenfeld, Oscar, and Grant, W. H. Abstract..... 23
Felton, H., Flosdorf, E. W., McGuinness, A. C., Dozois, T. F., Bondi, A., and Mudd, S. Abstract..... 79
Felton, Lloyd D., and Ottinger, Barbara. Abstract..... 94
Fermentation process, Bacteriological studies on the "natural," of preparing egg white for drying. Abstract..... 47
— rate of yeast, The effect of pH and temperature on the. Abstract..... 270
—, The, of alfalfa silage preserved with molasses, phosphoric acid, salt and inoculation. Abstract..... 59
Fibrinolysin, streptococcal, Factors influencing production of. Abstract.. 63
Filter paper, The use of, in an improved method for testing fungicides. Abstract..... 779
Filtrates, Antibacterial, from a strain of *Aspergillus flavus*. Abstract..... 12
Filtration through Seitz filters, Changes in reaction caused by..... 315
Fisher, C. Virginia, and Martin, Gustav J. Abstract..... 13
Fisher, W. M. Abstract..... 122
Fitzgerald, R. J., and Orcutt, F. S. Abstract..... 26
Fitzpatrick, Florence K. Abstract..... 93
Florestano, H. J. Abstract..... 22
—, Feinstone, W. Harry, and Williams, Roger D. Abstract..... 75
Flosdorf, E. W., Bondi, A. and Dozois, T. F. Abstract..... 265
—, Felton, H., McGuinness, A. C., Dozois, T. F., Bondi, A., and Mudd, S. Abstract..... 79
Fluorescence microscopy, Demonstration of tubercle bacilli by. Abstract.. 267
Foley, Edward J. Abstract..... 776
Fontaine, F. E., Peterson, W. H., McCoy, Elizabeth, Johnson, Marvin J. and Ritter, George J..... 701
Formate-utilizing organism, A pink-red, from a trickling filter, *Vibrio rubicundus, n.sp.* Abstract..... 61
Foster, E. M. Abstract. (No abstract.)..... 123
—, Garey, J. C., and Frazier, W. C. Abstract..... 45
Foster, Jackson W. Abstract..... 8
Foster, L. V. Abstract..... 116
Fothergill, LeRoy D., Seidman, Leah R., and Dingle, John D. Abstract... 97
Fox, Charles L., Jr. Abstract..... 68
Francis, Edward..... 343
Frantz, Ivan D., Jr..... 757
Frazier, W. C., Foster, E. M., and Garey, J. C. Abstract..... 45
— and Peppler, H. J..... 181
Freezing and storage of soft-shell crabs, Microbiological studies on the. Abstract..... 43
Friedemann, Theodore E. Abstract..... 29
Friedewald, William F. Abstract..... 90
Frisbee, Frances C., and MacNeal, Ward J. Abstract..... 67
Frisch, Arthur W. Abstract..... 72
Fruit juices, Preparation and preservation of. Abstract. (No abstract.).. 115
Fulton, Mac D. Abstract. (No abstract.)..... 122
Fungi, A micro culture slide for. Abstract..... 16
—, Effect of cations on growth of certain pathogenic. Abstract..... 16
—, Sexual hormones in the. Abstract..... 118

Fungicides, The use of filter paper in an improved method for testing. Abstract ... 779
Fungous spores, The content of, in the air in Buffalo. Abstract ... 115
Fungus, The cultivation and nutrient requirements of a chytridiaceous, *Rhizophlyctis rosea* ... 499
Fusiform organisms, Morphological studies of. Abstract ... 120

Garey, J. C., Foster, E. M., and Frazier, W. C. Abstract ... 45
Gas gangrene, Wilson-Blair medium in the rapid diagnosis of the clostridia of 685
Gaseous environments, Respiratory enzymes of bacteria in relation to different. Abstract ... 779
Gaughran, E. R. L., and Thomas, Stanley. Abstract ... 37
Genung, Elizabeth F., and Robinton, Elizabeth D. Abstract ... 778
Germicidal action, The, of certain substances in the presence of functioning and nonfunctioning tissue. Abstract. (No abstract.) ... 641
— properties, The, of high-molecular-weight aliphatic amine acetates. Abstract ... 53
— substances, An *in-vivo* method for the evaluation of, used for skin disinfection. Abstract ... 50
Germicides, The determination of the efficiency of, to be used in obstetrical and gynecological procedures. Abstract ... 52
—, The effect of a vacuum on the destruction of bacteria by. Abstract ... 52
Gibson, E. V., Grainger, T. H. and Campbell, E. P. Abstract ... 265
Gillman, W., Bernheimer, A. W., Hottle, G. A. and Pappenheimer, A. M. ... 495
Gilmore, Hugh R. Abstract ... 648
Glucose and sucrose syrups, Relative inhibition of growth of microorganisms by. Abstract ... 55
— fermentation, A new type of, by *Clostridium thermoaceticum* ... 701
Glycerol oxidation and fermentation by streptococci. Abstract ... 22
Gonococcus cultural procedure, Factors influencing the efficacy of the. Abstract. (No abstract.) ... 644
—, Importance of identification of the, from cultures and the effect of certain animal sera on the fermentations of the gonococcus ... 733
— (*Neisseria gonorrhoeae*), Isolation of microorganisms of the pleuropneumonia group from apparently pure cultures of the. Abstract ... 82
Gordon, F. B., and Reames, Harold R. Abstract ... 88
Gordon, Ruth E., and Smith, N. R. Abstract ... 55
Goresline, Harry E., and Smart, Helen F. Abstract ... 43
—, and Stuart, L. S. Abstract ... 47
Gottron, Elizabeth M., Weaver, R. H., and Scherago, M. Abstract ... 61
Gramicidin, Comparative bacteriostatic activity of penicillin and. Abstract 12
Grainger, T. H., Gibson, E. V. and Campbell, E. P. Abstract ... 265
Grant, W. H., and Felsenfeld, Oscar. Abstract ... 23
Grass, Powdered, as an enrichment medium for acid-forming anaerobes ... 463
Gray, W. D., Stark, W. H. and Kolachov, Paul. Abstract ... 270
Green, R. H. and Parker, R. F. Abstract ... 642
Green, T. W. and Birkeland, J. M. Abstract ... 641
Growth factor for rhizobia, Biotin as a ... 329
— — requirements for osmophilic yeasts. Abstract ... 18
— factors, The response of some yeasts to five different. Abstract ... 17
— rate of the pneumococcus, Effect of CO_2 on the ... 387
Grundy, W. E., Haley, D. E., and Reid, J. J. Abstract ... 41
Gunderson, Millard P., Linn, Richard H., Leask, William H., and Slack, John M. Abstract ... 58
Gunsalus, I. C., and Sherman, J. M. Abstract ... 22

Haberman, Sol, and Miller, Alvin L. Abstract 123
Hagan, W. A. Abstract. (No abstract.) 115
Halbert, Seymour P., and Cohen, Barnett. Abstract 93
—, Cohen, Barnett and Perkins, M. E. 607
Haley, D. E., Grundy, W. E., and Reid, J. J. Abstract 41
Hamburger, Morton, Jr., Schmidt, L. H. and Sesler, Clara L. Abstract 641
Hampil, Bettylee and Roberts, G. H. 397
Hand, D. B. and Sherman, J. M. Abstract 3
Harriman, L. A., Hopkins, E. W., and Koehler, A. Abstract 53
Harris, A. H. Abstract 775
Harris, Rhett G. Abstract 52
Harris, T. H., and Stuart, L. S. Abstract 14
Harris, T. N. 739
Hartsell, S. E. Abstract 776
Hayes, Guy S., and Brown, Thomas McP. Abstract 82
Hayward, A. E., Wynne, E. S., and Rode, L. J. Abstract 121
Hazen, E. L. and Maillard, E. R. Abstract 409
Heat resistance of certain lactic acid bacteria, Influence of a film yeast, *Candida krusei*, on the, grown in symbiosis with it 181
Heatley, N. G. Abstract. (No abstract.) 645
Hegarty, C. P., and Randall, W. A. Abstract 32
Hehre, Edward J., Sugg, John Y., and Neill, James M. Abstract 24
Heilman, Dorothy, and Herrell, Wallace E. Abstract 12
Heist, Eleanore, and Sanborn, J. R. Abstract 113
Hemolysin production, Spinal-cord section and, in the rat. Abstract 99
Hemolytic streptococci of serologic group E. Abstract 773
— streptococcus, An improved medium for the cultivation of 495
— —, A lethal agent produced by the 739
— —, Factors necessary for massive growth of group A 481
Hemophilus influenzae, A soluble toxin produced by. Abstract 77
— *pertussis* and related organisms, A study of the antigenic properties of. II. Protection and cross-protection tests in mice. Abstract 78
— —, Toxins in the several phases of. Abstract 265
Herpes virus, The routes of invasion of the central nervous system in young rabbits and mice by, instilled intranasally. Abstract. (No abstract.) 116
Herrell, Wallace E., and Heilman, Dorothy. Abstract 12
Hershey, J. B. Abstract 116
Heteromorphic colonies associated with ring formation 237
Highlands, Matthew E., Williams, O. B., and Williams, C. C. Abstract 39
Hill, H. W. and Morrison, H. B. Abstract 271
Hill, Justina H., and White, Edwin C. Abstract 12
H. influenzae sera, Anti-, The identification of precipitin with mouse-protective antibody with reference to the evaluation of. Abstract 97
Hinton, Jane, Mueller, J. Howard, and Miller, Pauline A. Abstract 100
Hirst, George K. Abstract 84
Hitchner, E. R., Snieszko, S. F., and McAllister, Joan. Abstract 28
Hoagland, C. L., Smadel, J. E., and Shedlovsky, T. Abstract 96
Hobby, Gladys L., Meyer, Karl, Dawson, Martin H., and Chaffee, Eleanor. Abstract 11
Holden's gasometric method, Modification of, for determination of carbon dioxide formed by yeast action and application to sugars in various combinations in biological media. Abstract 773
Holm, August, and Bunney, W. E. Abstract 80
Holtman, D. Frank. Abstract 40
Hopkins, E. W., Harriman, L. A., and Koehler, A. Abstract 53

—, and Poland, E. F. Abstract 269
Horwood, Murray P. and Nalchajian, Willard D. Abstract 21
Hospitals, Risk of tuberculosis infection in general. Abstract 267
Hottle, G. A., Bernheimer, A. W., Gillman, W., and Pappenheimer, A. M. ... 495
H. pertussis, Preliminary results in intradermal testing for susceptibility to whooping-cough with agglutinogen of phase I. Abstract 79
Hudson, C. S. and Tilden, Evelyn B. 527
Hudson, N. Paul. Abstract. (No abstract.) 120
Hungate, R. E. Abstract 122
Hunter, Albert C. Abstract 269
Hutchinson, W. G., and Kelner, Albert. Abstract 29
Hutner, S. H. 629
Hydrocarbons, The utilization of, by bacteria. Abstract 18
Hydrochloride, Bactericidal and fungicidal properties of a crystalline protein, isolated from wheat flour. Abstract 14
Hydrogenase, Properties of, in *Azotobacter*. Abstract 7
Hydrolysis, The, of arginine by streptococci 651

Illinois Branch, S. A. B. Proceedings 268, 648
Immunity in tuberculosis, Mechanism of. The fate of tubercle bacilli ingested by mononuclear phagocytes derived from normal and immunized animals. Abstract 267
— in white mice, Pneumococcus polysaccharide as a paralyzing agent on the mechanism of. Abstract 94
—, Infection and, in mouse catarrh 229
Immunogenic properties of fixed rabies virus strains, Investigations on the .. 397
Incubation temperature, The effect of, upon certain organisms cultured in cream. Abstract 778
— —, The significance of the, of recovery cultures in determining spore resistance to heat. Abstract 39
Indiana Branch, S. A. B. Proceedings 117, 776
Infected wounds, The use of bacteriophages in, and their sequelae. Abstract 67
Infection and immunity in mouse catarrh 229
—, The source of, in actinomycosis 193
Influenza, Production of experimental, in mice by means of exposure to airborne virus and its prevention by propylene glycol vapor. Abstract 648
— virus and antibodies, The quantitative determination of, by means of red cell agglutination. Abstract 84
— —, Inactivation of, by mild antiseptics. Abstract 85
Ingraham, Laura J. and Bunting, Mary I. 585
Inhibition of antiseptics by structurally related compounds. Abstract 13
— of growth, Relative, of microorganisms by glucose and sucrose syrups. Abstract 55
Inositol, Bacterial synthesis of, and its importance in the nutritional economy in mice. Abstract 5
Insects, injurious, The use of bacteria in the control of. Abstract. (No abstract.) 115
Intestinal and other lactobacilli, The gram-positive nonsporulating anaerobic bacteria of the intestine and their relation to the known. Abstract 35
— flora, Studies on the, of the guinea pig. Abstract 22
Intestine, Further observations on the origin of *E. coli* in the human. Abstract 21
Iodine compounds, The effect of aromatic, on the growth and metabolism of the tubercle bacillus. Abstract 31
Irons, J. V., and Bohls, S. W. Abstract 122

Isotopic nitrogen, Detection of nitrogen fixation with. Abstract 7
Israel, Harold L. Abstract 267

Jamieson, W. A., and Powell, H. M. Abstract 79
Jennison, M. W., Tapley, G. O., and Sullivan, Julia C. Abstract 100
Johnson, Edwin A., and Rettger, Leo F. Abstract 103
Johnson, E. M., Diachun, Stephen and Valleau, W. D. Abstract 271
Johnson, Frank H. Abstract 70, 645
Johnson, Marvin J., Fontaine, F. E., Peterson, W. H., McCoy, Elizabeth and Ritter, George J. 701
Jones, Kenneth L. Abstract 26
Jones, L. R., and Roberts, E. C. Abstract 116
Jungeblut, Claus W., and Sanders, Murray. Abstract 85
Jungherr, Erwin. Abstract 643

Kahn, Reuben L., Marcus, Stanley, McDermott, Elizabeth B., and Adler, Jacob. Abstract 95
Kass, Edward H., Scherago, M., and Weaver, R. H. Abstract 30
Kelly, Emily H. Abstract 643
Kelner, Albert, and Hutchinson, W. G. Abstract 29
Kempf, Alice H., and Nungester, W. J. Abstract 49
Kempner, W. and Schlayer, C. 387
Kessel, John F., and Moore, Frederick J. Abstract 86
Kimbrough, Cecil E., Burdon, Kenneth L., and Stokes, Julia C. 717
King, John W., and Rettger, Leo F. Abstract 35
Klemme, Dorothea E. 171
Klepser, Roy G., and Veal, J. Ross. Abstract 72
Knaysi, Georges 365
Koehler, A., Harriman, L. A., and Hopkins, E. W. Abstract 53
Kolachov, Paul, Gray, W. D. and Stark, W. H. Abstract 270
—, Scalf, R. E. and Stark, W. H. Abstract 270
, Stark, W. H., and Scalf, R. E. Abstract 42
Kopeloff, L. M., Barrera, S. E., and Kopeloff, N. Abstract 98
Kopeloff, N., Kopeloff, L. M., and Barrera, S. E. Abstract 98
Kopeloff, Lenore M., Stanton, Alfred H., Meunning, Louise, and Kopeloff, Nicholas. Abstract 99
Kopeloff, Nicholas, Stanton, Alfred H., Meunning, Louise, and Kopeloff, Lenore M. Abstract 99
Korzenovsky, M., and Salle, A. J. Abstract 52
Koser, Stewart A., Berkman, Sam, and Dorfman, Albert. Abstract 6
—, Dorfman, Albert, and Rice, Lester. Abstract 69
Kreitlow, K. W. 237
Kroulik, J. T., and Ragsdale, W. E. Abstract 123
Kuehner, Richard L., and Scheff, George J. Abstract 779

Lactic acid bacteria, Influence of a film yeast, *Candida krusei*, on the heat resistance of certain, grown in symbiosis with it 181
— — fermentation, The, of streptococci 725
Lactobacilli, The gram-positive nonsporulating anaerobic bacteria of the intestine and their relation to the known intestinal and other. Abstract 35
Lactobacillus, Correlations of the cultural characteristics in genus. Abstract. (No abstract.) 648
—, The characterization of species of the genus. Abstract 56
—, The nomenclature and characteristics of the, employed for the microbiological assay of riboflavin. Abstract 56

Lag phase, The, as an indispensable factor for the continued growth of a bacterial culture. Abstract 32
Landerkin, G. B., and Lochhead, A. G. Abstract 18
Landy, Maurice. Abstract. (No abstract.) 641
—, Dicken, Dorothy M., Bicking, Margaret M., and Mitchell, Winifred R. Abstract 5
Lawrence, C. A., and Sprague, K. D. Abstract 13
Leaf spot bacteria, Isolation of, from soil. Abstract 271
Leask, William H., Linn, Richard H., Gunderson, Millard P., and Slack, John M. Abstract 58
Lee, Sylvan B., Burris, Robert H., and Wilson, P. W. Abstract 60
—, and Wilson, J. B. Abstract 7
Leffler, Ruth, and Cromwell, Hobart W. Abstract 51
Leonian, Leon H., and Lilly, Virgil Greene. Abstract 17
Leptospira, Observations on the morphology of, and the Nichols' strain of *Treponema pallidum* with the aid of the RCA electron microscope. Abstract 64
Lethal agent, A, produced by the hemolytic streptococcus 739
Leuconostoc mesenteroides, Serologically similar polysaccharides produced from sucrose by certain streptococci and by. Abstract 24
—, Studies on slime production by some members of the genus. Abstract 24
Levine, A. S., Tarkow, L., and Fellers, C. R. Abstract 55
Levine, Max, and Weber, George R. Abstract 53
Levine, Milton. Abstract 33
Levinson, Sidney O., Shaughnessy, H. J., Zichis, Joseph, and Piszczek, Edw. A. Abstract 87
Lewis, Keith H., West, Robert A., Jr., and Militzer, Walter E. 155
Lichstein, Herman C. Abstract 27
Lilly, Virgil Greene, and Leonian, Leon H. Abstract 17
Linn, Richard H., Leask, William H., Gunderson, Millard P., and Slack, John M. Abstract 58
Lipschitz, Murray M. Abstract 97
Listerella, Some growth requirements of *Erysipelothrix* and 629
Little, Paul A., and Lyon, B. M. Abstract 57
Liu, P. Y., and Enders, John F. Abstract 91
Lochhead, A. G., and Landerkin, G. B. Abstract 18
Loosli, Clayton G., Robertson, O. H. and Puck, Theodore T. Abstract 648
Low temperatures, Ageing without reproduction and the viability of young bacterial cells at 749
LS-antigen of vaccinia, Serological properties of, and some of its degradation products. Abstract 96
Luminous bacteria, The fundamental mechanism of sulfonamide inhibitions in. Abstract 70
— —, Use of, as a tool in fundamental research. Abstract 645
Lurie, Max B. and Zappasodi, Peter. Abstract 267
Lyon, B. M., and Little, Paul A. Abstract 57
Lyons, Champ and Owen, Cora R. 685
Lysis of precipitated fibrinogen in agar medium by staphylococci 313

MacDonald, Angus D. and Bunyea, Hubert. Abstract 646
MacLean, Estelle, and Broadhurst, Jean. Abstract 15
MacNeal, Ward J., and Dunham, Wolcott B. Abstract 85
—, and Frisbee, Frances C. Abstract 67
Maillard, E. R. and Hazen, E. L. Abstract 409

Malzahn, R. C., Bechdel, S. I., and Stone, R. W. Abstract 59
Mandia, James, Weaver, R. H., and Scherago, M. Abstract 59
Marcus, Stanley, Kahn, Reuben L., McDermott, Elizabeth B., and Adler, Jacob. Abstract 95
Martin, Donald S. Abstract 95
Martin, Gustav J., and Fisher, C. Virginia. Abstract 13
Maryland Branch, S. A. B. Proceedings 120
Mason, Herman C. Abstract 54
Mathieson, Don R. Abstract 81
McAllister, Joan, Snieszko, S. F., and Hitchner, E. R. Abstract 28
McCleskey, C. S., and Alford, John A. Abstract 24
McClung, L. S. Abstract 35, 117
McClure, George Y. Abstract 409
McCoy, Elizabeth, Fontaine, F. E., Peterson, W. H., Johnson, Marvin J. and Ritter, George J. 701
McDaniel, Lloyd E. Abstract. (No abstract.) 644
McDermott, Elizabeth B., Kahn, Reuben L., Marcus, Stanley, and Adler, Jacob. Abstract 95
McFadden, D. B., Weaver, R. H., and Scherago, M. Abstract 103
McGuinness, A. C., Flosdorf, E. W., Felton, H., Dozois, T. F., Bondi, A., and Mudd, S. Abstract 79
McKee, Clara M. and Rake, Geoffrey. Abstract 645
McKinney, Ruth A., Mellon, Ralph R., and Rack, Frank J. Abstract 70
Meats, The occurrence of *Salmonella* in retail market. Abstract 49
Melibiose-fermenting yeasts, Simple technique for the detection of. Abstract 42
Mellon, Ralph R., McKinney, Ruth A., and Rack, Frank J. Abstract 70
Meningococcal meningitis, Bacteriological and immunological studies of. Abstract 99
Meningococcus, Comments on a newly recognized group of. Abstract. (No abstract.) 270
—, Growth requirements of the 757
—, The detoxification of, by urea. Abstract 77
Mercurials, Price's method for the evaluation of. Studies in skin disinfection. Abstract. (No abstract.) 648
Meunning, Louise, Stanton, Alfred H., Kopeloff, Lenore M., and Kopeloff, Nicholas. Abstract 99
Meyer, Karl, Hobby, Gladys L., Dawson, Martin H., and Chaffee, Eleanor. Abstract 11
Micro culture slide, A, for fungi. Abstract 16
Microscope objectives and a new stereo-polarizer. Abstract 155
Militzer, Walter E., West, Robert A., Jr., and Lewis, Keith H. 116
Milk bacteria, The effect of pasteurization on the nutritive requirements of. Abstract 116
—, The quality of, in a large section of Virginia as affected by the constant occurrence of *Streptococcus lactis* variety *tardus* and *Bacillus albolactis*. Abstract 61
Miller, Alvin L., and Haberman, Sol. Abstract 123
Miller, C. Philip. Abstract 77
Miller, H. J., Riddle, K. B., Paul, L. J., and Prickett, P. S. Abstract. (No abstract.) 118
Miller, John K. Abstract 774
Miller, N. J., Prickett, P. S., Riddle, K. B., and Paul, L. J. Abstract 3
Miller, Pauline A. and Mueller, J. Howard 763

—, Mueller, J. Howard, and Hinton, Jane. Abstract 100
Mitchell, Winifred R., Landy, Maurice, Dicken, Dorothy M., and Bicking, Margaret M. Abstract 5
Moore, Frederick J., and Kessel, John F. Abstract 86
Morgan, Isabel M., Schlesinger, R. Walter, and Olitsky, Peter K. Abstract 83
Morrison, H. B. and Hill, H. W. Abstract 271
Mortality in turkeys, *Aerobacter aerogenes* and *Escherichia coli var. acidilactici* as causes of. Abstract 646
Morton, Harry E., and Anderson, Thomas F. Abstract 64
Mosaic, Breeding tobacco for resistance to. Abstract 272
Mouse-protective test, Potency determination of antipertussis serum by the. Abstract 80
— —, Potency titration of antiserum for erysipelothrix infection by means of. Abstract 57
Mouth spirochetes, Cultivation and isolation of. Abstract 65
Mrak, E. M., Phaff, H. J. and Vaughn, R. 689
M. rhesus monkey, Rearing of a caesarian-born, under sterile conditions. A preliminary report. Abstract 778
Mudd, Stuart and Anderson, Thomas F. Abstract. (No abstract.) 266
—, Flosdorf, E. W., Felton, H., McGuinness, A. C., Dozois, T. F., and Bondi, A. Abstract 79
Mueller, J. Howard and Miller, Pauline A. 763
—, Hinton, Jane, and Miller, Pauline A. Abstract 100
Muir, Robert D. Abstract 779
Murray, H. C. Abstract 777
Mycobacterium tuberculosis, *Pseudomonas aeruginosa* and *Salmonella typhimurium*, Fate of, in scavenger birds. Abstract. (No abstract.) .. 646
Mycology, The contrasting terminology of medical and botanical. Abstract 776
Myers, A. T., Curran, H. R., and Brunstetter, B. C. Abstract 25
Myxobacteria, Further studies on the biology of certain. Abstract 28
Myxoma, herpes and vaccinia viruses, The effect of temperature upon the growth and survival of. Abstract 90

Nalchajian, Willard D., and Horwood, Murray P. Abstract 21
Naylor, H. Brooks and Sherman, James M. 749
Neill, James M., Sugg, John Y., and Hehre, Edward J. Abstract 24
Neisseria catarrhalis, Studies of. Abstract 100
— *gonorrhoeae*, An antigenic fraction separated from broth cultures of. Abstract 76
—, Growth requirements of. Abstract 100
Nelson, J. Walter and Seibert, Florence B. Abstract 266
Neter, Erwin. Abstract 10
Neurotropic virus "antibody," Detection of, by the agglutination of antigen-coated bacteria. Abstract 116
New Jersey Branch, S. A. B. Proceedings 644
Nitrogen fixation, Detection of, with isotopic nitrogen. Abstract 7
— supply, Formation of biologically active tobacco-mosaic virus in vivo, as affected by. Abstract 646
Niven, C. F., Jr., Smiley, K. L., and Sherman, J. M. Abstract 113, 114
Niven, C. F. Jr., Smiley, K. L., and Sherman, J. M. 651
Non-coliform bacteria in stools submitted for parasitological examination. Abstract. (No abstract.) 122
Northern California-Hawaiian Branch, S. A. B. Proceedings 120
Norton, Edna M., and Fellowes, O. N. Abstract 37

Novak, Milan. Abstract 268
Nucleus, The demonstration of a, in the cell of a staphylococcus 365
Nungester, W. J., and Kempf, Alice H. Abstract 49
—, and Youngner, Julius S. Abstract 94
Nutritional economy in mice, Bacterial synthesis of inositol and its importance in the. Abstract 5
— requirements, A comparative study of the, of *Salmonella pullorum*, *Salmonella gallinarum* and *Salmonella typhosa*. Abstract 103

Obstetrical and gynecological procedures, The determination of the efficiency of germicides to be used in. Abstract 52
Ohio Branch, S. A. B. Proceedings 641
O'Kane, D. J. Abstract 7
Olafson, Peter. Abstract. (No abstract.) 115
Olitsky, Peter K., Morgan, Isabel M., and Schlesinger, R. Walter. Abstract 83
Oospora lactis, Observations on the rate of growth of. Abstract 271
Oral infections, The morphology of various bacterial forms, some of pathogenic significance in, as shown by the electron microscope. Abstract 66
Orcutt, F. S. Abstract 61
—, and Fitzgerald, R. J. Abstract 26
Ottinger, Barbara, and Felton, Lloyd D. Abstract 94
Owen, Cora R. and Lyons, Champ 685
Oxygen absorption and catalase production, A study of, during growth of *Chaetomium globosum* on cotton fiber and yarn 171

Packchanian, A. Abstract 66
Pantothenic acid in the metabolism of *Proteus morganii*. Abstract 6
Papillae-forming strains of *Escherichia colimutabile*, Anaerogenic derivatives of. Abstract 19
Papilloma virus, Experimentally enhanced susceptibility of rabbit epidermis to the. Abstract 90
Pappenheimer, A. M., Jr. 273
—, and Bernheimer, Alan W. Abstract 4
Pappenheimer, A. M., Jr., and Bernheimer, Alan W. 481
—, Bernheimer, A. W., Gillman, W. and Hottle, G. A. 495
Parker, R. F., and Green, R. H. Abstract 642
Parr, Leland W. Abstract 647
—, and Robbins, Mary Louise. Abstract 19
Parr, Leland W., and Robbins, Mary Louise 661
Pasteurella pestis, The fate of, in the flea. Abstract 120
— *tularensis*, The lethal effect of certain substances on. Abstract 102
Pasteurization of crab meat. Abstract 44
—, The effect of flash, and subsequent treatment on the phosphatase value of cream. Abstract 118
—, The effect of, on the nutritive requirements of milk bacteria. Abstract. 116
Pathogenic bacteria, The metabolism of carbohydrate during the early stages of growth of. Abstract 29
— staphylococci, Specificity of selective isolation media for probable. Abstract 105
— types of α- and γ-hemolytic streptococci, Selective isolation of. Abstract. 64
Paul, L. J., Prickett, P. S., Riddle, K. B., and Miller, N. J. Abstract 3
—, Riddle, K. B., Miller, H. J., and Prickett, P. S. Abstract. (No abstract.) 118
Pearson, Harold E 229
Pederson, Carl S. Abstract 56

—, and Beattie, H. G. Abstract 115
Peizer, Lenore R. 733
Penicillin, A bacterial growth inhibitant—its properties, uses and production. Abstract. (No abstract.) 645
—, Biological experiments with. Abstract 645
—, Comparative bacteriostatic activity of, and gramicidin. Abstract 12
—, The antibacterial action of. Abstract 11
Peppler, H. J., and Frazier, W. C. 181
Peptone and p-aminobenzoic acid, The effect of, on the growth of *Salmonella*. Abstract 776
—, Variability in acid and alkali production by bacilli grown on 3 types of. Abstract 26
Perkins, M. E., Cohen, Barnett, and Halbert, S. P. 607
Pertussis agglutination tests, Rapid, following the use of pertussis vaccine. Abstract 79
— — tests, Rapid, of circulating antibody in stock and Swiss mice treated with Phase I pertussis vaccine. Abstract 119
— toxin, Immunological studies on, prepared free of agglutinogen. Abstract 80
— vaccine, Rapid pertussis agglutination tests following the use of. Abstract 79
— —, Rapid pertussis agglutination tests of circulating antibody in stock and Swiss mice treated with Phase I. Abstract 119
Peterson, W. H., Fontaine, F. E., McCoy, Elizabeth, Johnson, Marvin J., and Ritter, George J. 701
Phaff, H. J., Mrak, E. M., and Vaughn, R. 689
Pharmacology, Some recent advances in the, of the sulfonamides. Abstract. 775
Phosphatase value of cream, The effect of flash pasteurization and subsequent treatment on the. Abstract 118
Photoelectric colorimeter, A method for measuring bacterial pigments by the use of the spectrophotometer and the 141
Photosynthetic purple bacteria, Alcohol oxidation by. Abstract 8
Photronreflectometer, Use of the, in precipitin titrations of a multiple-antigen multiple-antibody mixture by the Dean-Webb method. Abstract 95
Pickett, Morris J. Abstract 120
Pierce, Cynthia H. 780
Pigments, A method for measuring bacterial, by the use of the spectrophotometer and the photoelectric calorimeter 149
Pinner, Max, and Tobler, Alice B. Abstract 104
Piszczek, Edw. A., Shaughnessy, H. J., Zichis, Joseph, and Levinson, Sidney O. Abstract 87
Plant materials, Further studies on the use of, as enrichment media for butyric-acid-forming anaerobes 473
Plasma, The effect of *A. oryzae* diastase, malt diastase and pepsin on antitoxic and normal. Abstract 30
Plastic tubes, The use of, in the isolation of sporulating anaerobes. Abstract. 35
Plastridge, W. N., and Cunningham, Lorna. Abstract 779
Pleural effusions, The effect of, on the growth of *Staphylococcus aureus in vitro*. Abstract 104
Pleuropneumonia group, Isolation of microorgaisms of the, from apparently pure cultures of the gonococcus (*Neisseria gonorrhoeae*). Abstract 82
— —, Observations on some biological characteristics of organisms of the ... 211
— — of organisms, The nature of the. Abstract 81
Pleuropneumonia-like (L) organisms, Isolation of, from man. Abstract 83

Pleuropneumonia-like organisms, *Streptobacillus moniliformis*, its associated L_1 form, and other. Abstract 780
Pneumococcal hemolysin. The preparation of concentrates and their action on red cells 607
— —, Toxic and immunological properties of. Abstract 93
Pneumococci, Further observations on the survival rates of streptococci and, in daylight and darkness. Studies on microorganisms in simulated room environments. VII 545
—, Occurrence of sulfonamide-resistant. Abstract 641
—, Sulfonamide-inhibitor-free media for. Preliminary report. Abstract 774
—, The activity of various sulfonamides against, made resistant to one of these drugs. Abstract 73
—, The influence of the composition of the culture medium on the action of sulfapyridine on. Abstract 72
—, The *in-vitro* susceptibility of, to sulfapyridine and sulfathiazole. Abstract 72
Pneumococcus, Effect of CO_2 on the growth rate of the 387
— polysaccharide as a paralyzing agent on the mechanism of immunity in white mice. Abstract 94
— —, The effect of, on the circulation of blood in small blood vessels. Abstract 94
— type I, The respiration of *Streptococcus pyogenes* and. III. Bearing of respiration on existing theories of the mechanism of the action of the chemotherapeutic agents 447
— type incidence in Texas during 1940–1941. Abstract 123
Pneumoenteritis of calves, A filterable virus from. Abstract 89
Poland, E. F., and Hopkins, E. W. Abstract 269
Polevitzky, Katherine A., and Anderson, Thomas F. Abstract 66
Poliomyelitis, Certain anomalies in experimental. Abstract 86
—, Experiments with the SK strain of, in smaller animals. Abstract 87
—, Studies on the isolation of the virus of poliomyelitis from cases and contacts in a small localized outbreak of acute anterior. Abstract 87
— virus, Behavior of, in cynomolgus monkeys infected by the oral route. Abstract 86
— —, Interference between monkey and murine. Abstract 85
Polysaccharides, bacterial, A method for the quantitative determination of. Abstract 97
—, Serologically similar, produced from sucrose by certain streptococci and by *Leuconostoc mesenteroides*. Abstract 24
Porter, C. L. Abstract 776
Poston, Mary A. Abstract 74
Potassium tellurite, The effect of, on the dehydrogenases of *Escherichia coli*. Abstract 643
Potency titration of antiserum for erysipelothrix infection by means of mouse-protective test. Abstract 57
Powell, H. M. Abstract 119
—, and Jamieson, W. A. Abstract 79
Precipitin, The identification of, with mouse-protective antibody with reference to the evaluation of anti-*H. influenzae* sera. Abstract 97
Preventive medicine in the army. Abstract 648
Price method, Evaluation of "skin degerming" agents by a modification of the. Abstract 51
Price's method for the evaluation of mercurials. Studies in skin disinfection: Abstract. (No abstract.) 648

Prickett, P. S., and Riddle, K. B. Abstract 117
—, Riddle, K. B., Paul, L. J., and Miller, N. J. Abstract 3
—, —, —, and —. Abstract. (No abstract.) 118
Propylene glycol vapor, Production of experimental influenza in mice by means of exposure to air-borne virus and its prevention by. Abstract .. 648
Protective test, The effect of separate inoculation of vaccine virus and immune serum on the. Abstract 642
Proteus, An ecological study of. Abstract 33
Proteus, A study of methods used for inhibition of the growth of, on diagnostic media. Abstract 23
— *morganii*, Pantothenic acid in the metabolism of. Abstract 6
Pseudomonas aeruginosa and *Salmonella typhimurium*, Fate of *Mycobacterium tuberculosis*, in scavenger birds. Abstract. (No abstract.) 646
— —: plant pathogen. Abstract 40
— —, The dual pathogenicity of. Abstract. (No abstract.) 646
Pseudorabies, Study of the virus of, on the chick embryo. Abstract 646
Public health in England at war, Observations on. Abstract. (No abstract.) 120
Puck, Theodore T., Loosli, Clayton G., and Robertson, O. H. Abstract 648
Pyelitis, Preliminary bacteriology on a case of chronic. Abstract 776
Pyruvic acid, General requirements and special importance of. Growth of non-sporulating anaerobic bacteria of intestinal origin in synthetic media. I. 155

Quaternary ammonium type, The decrease in bactericidal activity of disinfectants of the, in the presence of agar. Abstract 778
Quigley, James J., and Thompson, William R. Abstract 773

Rabies, street, Observations on, in white mice. Abstract 122
— virus, A study of the effect of surface-active agents on. Preliminary report. Abstract 409
Rabies virus strains, Investigations on the immunogenic properties of fixed. 397
Rack, Frank J., Mellon, Ralph R., and McKinney, Ruth A. Abstract 70
Raefler, Janet, and Spaulding, E. H. Abstract 267
Ragsdale, W. E., and Kroulik, J. T. Abstract 123
Rake, Geoffrey, Alture-Werber, E., van Dyke, H. B., and Walker, H. A. Abstract 645
— and McKee, Clara M. Abstract 645
Rakieten, Morris L. Abstract 102
Randall, W. A., and Hegarty, C. P. Abstract 32
Raper, John R. Abstract 118
Rat bite fever. Abstract. (No abstract.) 120
Reames, Harold R., and Gordon, F. B. Abstract 88
Red cell agglutination, The quantitative determination of influenza virus and antibodies by means of. Abstract 84
— cells, Pneumococcal hemolysin. The preparation of concentrates and their action on 607
Reducing agents, Further studies on media containing. Abstract 36
Reed, J. M., and Williams, O. B. Abstract 39
Reedy, R. J., and Anzulovic, J. V. Abstract 44
Reid, J. J., Grundy, W. E., and Haley, D. E. Abstract 41
Relapsing fever, Observations on naturally induced human. Abstract ... 123
Respiration, The, of *Streptococcus pyogenes*. I. Optimal conditions of respiration 411

—, The, of *Streptococcus pyogenes*. II. The inhibition of respiration and growth by sulfanilamide; the inhibition of respiration by hydroxylamine and its sulfonamide and other derivatives.... 421
—, The, of *Streptococcus pyogenes* and pneumococcus type I. III. Bearing of respiration on existing theories of the mechanism of the action of the chemotherapeutic agents.... 447
Rettger, Leo F., and Crecelius, H. G. Abstract.... 20
—, and Johnson, Edwin A. Abstract.... 103
—, and King, John W. Abstract.... 35
Reyniers, James A. Abstract.... 778
Rhizobia, Biotin as a growth factor for.... 329
Rhizophlyctis rosea, The cultivation and nutrient requirements of a chytridiaceous fungus.... 499
Riboflavin assay of cereals by the microbiological method. Abstract. (No abstract.).... 118
—, Studies on the microbiological assay of, in foodstuffs with special reference to cereals. Abstract.... 3
—, The nomenclature and characteristics of the *Lactobacillus* employed for the microbiological assay of. Abstract.... 56
—, The reduction of, by streptococci. Abstract.... 3
Rice, Lester, Dorfman, Albert, and Koser, Stewart A. Abstract.... 69
Riddle, K. B., Paul, L. J., Miller, H. J., and Prickett, P. S. Abstract. (No abstract.).... 118
—, and Prickett, P. S. Abstract.... 117
—, Prickett, P. S., Paul, L. J., and Miller, N. J. Abstract.... 3
Ring formation, Heteromorphic colonies associated with.... 229
Riordan, John T. Abstract.... 642
Ritter, George J., Fontaine, F. E., Peterson, W. H., McCoy, Elizabeth, and Johnson, Marvin J.... 701
Robbins, Mary Louise, and Parr, Leland W. Abstract.... 19
Robbins, Mary Louise, and Parr, Leland W.... 661
Roberts, E. C., and Jones, L. R. Abstract.... 116
Roberts, G. H., and Hampil, Bettylee.... 397
Roberts, James L. Abstract.... 777
Robertson, O. H., Loosli, Clayton G., and Puck, Theodore T. Abstract.... 648
Robinson, George H. Abstract.... 66
Robinson, Elizabeth D., and Genung, Elizabeth F. Abstract.... 778
Rocky Mountain spotted fever in New York State. Abstract.... 409
— — wood tick, *Dermacentor anderosoni Stiles*, The microbial flora of the. Abstract.... 91
Rode, L. J., Wynne, E. S., and Hayward, A. E. Abstract.... 121
Roentgen radiation, The inactivation of toxic bacterial filtrates by. Abstract.... 75
Rogosa, Morrison, Tittsler, Ralph P., and Whittier, Earle O. Abstract.... 56
— — and —. Abstract. (No abstract.).... 648
Rustigian, Robert, Stuart, C. A., Zimmerman, Alice, and Baker, Muriel.... 557

Sabin, Albert B., and Duffy, Carl E. Abstract.... 88, 642
—, and Ward, Robert. Abstract.... 86
Sage, Dorothy, and Spaulding, E. H. Abstract.... 106
Saliva, human, Studies on the antibacterial factors of.... 573
Salle, A. J., and Korzenovsky, M. Abstract.... 52

Salmonella poona, The loss of H antigens of, through the action of bacteriophage. Abstract 102
— *pullorum*, *Salmonella gallinarum* and *Salmonella typhosa*, A comparative study of the nutritional requirments of. Abstract 103
—, The effect of peptone and p-aminobenzoic acid on the growth of. Abstract 776
—, The occurrence of, in retail market meats. Abstract 49
— *typhimurium*, Fate of *Mycobacterium tuberculosis*, *Pseudomonas aeruginosa* and, in scavenger birds. Abstract. (No abstract.) 646
— typing center, The, at Baylor College of Medicine. Abstract. (No abstract.) 122
Sanborn, J. R., and Heist, Eleanor. Abstract 113
Sanders, Murray, and Jungeblut, Claus W. Abstract 85
Sandholzer, Leslie A. Abstract 48
Sarber, Raymond W. Abstract 50
—. Abstract. (No abstract.) 641
Sardines, Bacteriological studies on Maine. Abstract 39
Sauerkraut, pink, *Serratia marcescens* as a cause of. Abstract 40
Saz, Arthur K., and Bernheim, Frederick. Abstract 31
Scalf, R. E., Stark, W. H., and Kolachov, Paul. Abstract 42, 270
Scarlet fever, An epidemic of, in a kindergarten. Abstract. (No abstract.) 644
Scheff, George J., and Kuehner, Richard L. Abstract 779
Scherago, M., Gottron, Elizabeth M., and Weaver, R. H. Abstract 61
—, Kass, Edward H., and Weaver, R. H. Abstract 30
—, Mandia, James, and Weaver, R. H. Abstract 59
—, McFadden, D. B., and Weaver, R. H. Abstract 103
—, Schreiber, Minnie, and Weaver, R. H. Abstract 272
Schlayer, C., and Kempner, W 387
Schlesinger, R. Walter, Morgan, Isabel M., and Olitsky, Peter K. Abstract. 83
Schmelkes, F. C., and Wyss, Orville. Abstract 62, 71, 644
Schmidt, L. H., and Sesler, Clara L. Abstract 73
—, Sesler, Clara L., and Hamburger, Morton, Jr. Abstract 641
— and Stuber, Mary C. Abstract 72
Schreiber, Minnie, Weaver, R. H., and Scherago, M. Abstract 272
Schuhardt, V. T. Abstract. (No abstract.) 124
Schwentker, Francis F. Abstract. (No abstract.) 644
Seibert, Florence B., and Nelson, J. Walter. Abstract 266
Seidman, Leah R., Dingle, John H., and Fothergill, LeRoy D. Abstract 97
Seitz filters, Changes in reaction caused by filtration through 315
Serologic group E, Hemolytic streptococci of. Abstract 773
Serratia marcescens as a cause of pink sauerkraut. Abstract 40
— — 8274, Factors affecting the distribution of color variants in ageing broth cultures of 593
— — —, The distribution of color variants in ageing broth cultures of 585
Sesler, Clara L., and Schmidt, L. H. Abstract 73
—, Schmidt, L. H., and Hamburger, Morton, Jr. Abstract 641
—, Stahly, Grant L., and Brode, Wallace R 149
Sevag, M. G., and Shelburne, Myrtle. Abstract 68; Abstract. (No abstract.) 266
— and Shelburne, Myrtle 411, 421, 447
Sexual hormones in the fungi. Abstract 118
Shaughnessy, H. J., Zichis, Joseph, Piszczek, Edw. A., and Levinson, Sidney O. Abstract 87
Shedlovsky, T., Smadel, J. E., and Hoagland, C. L. Abstract 96
Shelburne, Myrtle, and Sevag, M. G. Abstract 68; Abstract. (No abstract.) 266

Shelburne, Myrtle, and Sevag, M. G. 411, 421, 447
Shellfish, A comparison of presumptive tests for coliform bacteria in seawater and. Abstract 48
Sherman, J. M., and Gunsalus, I. C. Abstract 22
— and Hand, D. B. Abstract 3
— and Naylor, H. Brooks 749
—, Niven, C. F., Jr., and Smiley, K. L. Abstract 113
Sherman, J. M., Niven, C. F., Jr., and Smiley, K. L. 651
—, Smiley, K. L., and Niven, C. F., Jr. Abstract 114
— and Smith, Paul A 725
Sherwood, Marion B. Abstract 778, 779
Shwartzman response, Influence of soaps on bacterial toxins as elicited by. Abstract 54
Sievers, Olof 305
Sigel, M. M., and Cook, E. B. M. Abstract 122
Silica gel, Adaptability of, as a culture medium 317
Single cell isolation, The use of tungsten micro-needles in. Abstract 777
"Skin degerming" agents, Evaluation of, by a modification of the Price method. Abstract 51
Skin disinfectants, An *in-vivo* test for the evaluation of. Abstract 49
— —, Standardization of. Abstract 50
— disinfection, An *in-vivo* method for the evaluation of germicidal substances used for. Abstract 50
— —, Studies in: Price's method for the evaluation of mercurials. Abstract. (No abstract.) 648
Slack, John 193
—, Linn, Richard H., Leask, William H., and Gunderson, Millard P. Abstract 58
Slanetz, L. W. Abstract 105
Slavin, H. B., Evans, C. A., and Berry, G. P. Abstract. (No abstract.) .. 116
Slime production, Studies on, by some members of the genus *Leuconostoc*. Abstract 24
Smadel, J. E., Hoagland, C. L., and Shedlovsky, T. Abstract 96
Smart, Helen F., and Goresline, Harry E. Abstract 43
Smiley, K. L., Niven, C. F., Jr., and Sherman, J. M. Abstract 113, 114
Smiley, K. L., Niven, C. F., Jr., and Sherman, J. M. 651
Smith, Edward H. Abstract. (No abstract.) 115
Smith, N. R., and Gordon, Ruth E. Abstract 55
Smith, Paul A., and Sherman, J. M. 725
Smith, William E. Abstract 83
Snieszko, S. F., McAllister, Joan, and Hitchner, E. R. Abstract 28
Soaps, Influence of, on bacterial toxins as elicited by Shwartzman response. Abstract 54
Sobin, Ben, and Stahly, Grant L. Abstract 27
Society of American Bacteriologists, Forty-third General Meeting of the. Baltimore, Md., December 29 to 31, 1941. Scientific Proceedings 1
Sockrider, Elsie M., and Evans, Alice C. Abstract 62
Sodium azide, The inhibition of bacterial catalase by. Abstract 27
Soft-shell crabs, Microbiological studies on the freezing and storage of. Abstract 42
Solotorovsky, Morris, Solowey, Mathilde, and Buchbinder, Leon 545
Solowey, Mathilde, Solotorovsky, Morris and Buchbinder, Leon 545
Southworth, Warren H., and Williams, John W. Abstract 16
Spaulding, E. H., and Raefler, Janet. Abstract 267

—, and Sage, Dorothy. Abstract 106
Spectrochemical analysis, Quantitative, of vegetative and spore cells of aerobic bacteria. Abstract 25
Spectrophotometer and the photoelectric colorimeter, A method for measuring bacterial pigments by the use of 141
Spencer, Ernest L. Abstract 646
Spinal cord section and hemolysin production in the rat. Abstract 99
Spirochetes of the mouth, Cultivation of. Abstract 66
Spore-forming bacteria which produce bactericidal substances, The isolation from soil of 253
Spore resistance to heat, The significance of the incubation temperature of recovery cultures in determining. Abstract 39
— suspension, A stabilized, for disinfection tests. Abstract 53
Spores, The killing of bacterial, in fluids by agitation with small inert particles 125
Sporulating anaerobes, The use of plastic tubes in the isolation of. Abstract 35
Spotted fever vaccine, Antibody production in man following. Abstract 93
Sprague, K. D., and Lawrence, C. A. Abstract 13
Spray, Robb Spalding. Abstract 35
S. pullorum sera, Comparison of crystal-violet antigen, thiosulphate antigen and the tube method in testing. Abstract 58
Stability, The concept of, and some of its implications 661
Stahly, Grant L., Sesler, Clara L. and Brode, Wallace R. 149
—, and Sobin, Ben. Abstract 27
Stanier, R. Y. 499
Stanley, W. M. Abstract. (No abstract.) 409
Stanton, Alfred H., Meunning, Louise, Kopeloff, Lenore M., and Kopeloff, Nicholas. Abstract 99
Staphylococcal toxins, Studies on. Abstract 105
Staphylococci, Comparison of solid and liquid media for testing the coagulase activity of. Abstract 107
—, Lysis of precipitated fibrinogen in agar medium by 313
Staphylococcus aureus, Comparison of *in-vitro* effectiveness of various sulfonamides on 110 strains of. Abstract 74
— —, The effect of pleural effusions on the growth of, *in vitro*. Abstract 104
— bacteriophage, The use of enzymatic hydrolysate of casein as a medium for the preparation of intravenous. Abstract 106
— enterotoxin tests. Abstract 269
— infections, Experimental, and their use in sulfonamide testing. Abstract 74
—, The demonstration of a nucleus in the cell of a 365
— variants, Toxin production by. Abstract 123
Stark, W. H., Gray, W. D. and Kolachov, Paul. Abstract 270
—, Scalf, R. E., and Kolachov, P. J. Abstract 42, 270
Steinhaus, Edward A. Abstract 91
Stereo-polarizer, Microscope objectives and a new. Abstract 116
Sterges, A. J. 317
Sterilization, dry, Studies on. Abstract 117
Stern, Robert M. Abstract 38
Stiles, Merritt H., and Chapman, George H. Abstract 64
Stokes, Julia C., Burdon, Kenneth L., and Kimbrough, Cecil E. 717
Stokes, J. L. and Woodward, C. R., Jr. 253
Stokinger, Herbert E., Carpenter, Charles M., and Ackerman, Helen. Abstract 76
—, —, Ackerman, Helen, and Warren, Stafford L. Abstract 75
Stomach and intestinal flora of guinea pigs receiving ordinary stock and special diets. Abstract 20

Stone, R. W., Malzahn, R. C., and Bechdel, S. I. Abstract ... 59
—, and Strawinski, R. J. Abstract ... 18
Stools submitted for parasitological examination, Non-coliform bacteria in. Abstract. (No abstract.) ... 122
Strawinski, R. J., and Stone, R. W. Abstract ... 18
Strean, Lyon P. Abstract ... 80
Streptobacillus moniliformis, its associated L_1 form, and other pleuropneumonia-like organisms. Abstract ... 780
Streptococci and pneumococci, Further observations on the survival rates of, in daylight and darkness. Studies on microorganisms in simulated room environments. VII ... 545
—, Glycerol oxidation and fermentation by. Abstract ... 22
—, Selective isolation of pathogenic types of α- and γ-hemolytic. Abstract 64
—, Serologically similar polysaccharides produced from sucrose by certain, and by *Leuconostoc mesenteroides*. Abstract ... 24
—, The hydrolysis of arginine by ... 651
—, The lactic acid fermentation of ... 725
—, The reduction of riboflavin by. Abstract ... 3
Streptococcus agalactiae agglutinins in bovine blood serum and whey. Abstract ... 779
— bacteriophage, type E. Abstract ... 62
— *cardioarthritidis*, *Streptococcus salivarius*, and certain other "indifferent streptococci." Abstract ... 114
— *hemolyticus*, Group A, A protein-free medium capable of supporting massive growth of. Abstract ... 4
— *lactis* variety *tardus* and *Bacillus albolactis*, The quality of milk in a large section of Virginia as affected by the constant occurrence of. Abstract 61
— *pyogenes*, Mechanism of sulfanilamide action- simultaneous inhibition of the respiration and growth of, by sulfonamide drugs. Abstract. (No abstract.) ... 266
— —, The respiration of. I. Optimal conditions of respiration ... 411
— —, The respiration of. II. The inhibition of respiration and growth by sulfanilamide; the inhibition of respiration by hydroxylamine and its sulfonamide and other derivatives ... 421
— —, The respiration of, and pneumococcus type I. III. Bearing of respiration on existing theories of the mechanism of the action of the chemotherapeutic agents ... 447
— *salivarius* in the human intestine. Abstract ... 113
— —, "*Streptococcus cardioarthritidis*" and certain other "indifferent streptococci." Abstract ... 114
— —, The use of dissociation studies in the identification of a mucoid streptococcus from a trickling filter as. Abstract ... 59
Stuart, C. A., Zimmerman, Alice, Baker, Muriel and Rustigian, Robert ... 557
Stuart, L. S., and Goresline, Harry E. Abstract ... 47
—, and Harris, T. H. Abstract ... 14
Stuber, Mary C., and Schmidt, L. H. Abstract ... 72
Sudan black B-safranin, Staining for fat with. Studies of the common aerobic spore-forming bacilli. I ... 717
Sugars, Fermentation of, by *Bacterium tularense* ... 343
Sugg, John Y., Hehre, Edward J., and Neill, James M. Abstract ... 24
Sulfanilamide action—Mechanism of, simultaneous inhibition of the respiration and growth of *Streptococcus pyogenes* by sulfonamide drugs. Abstract. (No abstract.) ... 266
— and sulfathiazole, Wound-healing phenomena of. Abstract ... 70

—, sulfapyridine, sulfathiazole and sulfanilylguanidine, Effects of, upon colon-typhoid-dysentery group. Abstract ... 13
—, The inhibition of respiration and growth by; the inhibition of respiration by hydroxylamine and its sulfonamide and other derivatives. The respiration of *Streptococcus pyogenes*. II. ... 421
Sulfanilylguanidine, The effect of, on *Brucella abortus* in vitro. Abstract ... 265
Sulfapyridine, The influence of the composition of the culture medium on the action of, on pneumococci. Abstract ... 72
—, The *in-vitro* susceptibility of pneumococci to, and sulfathiazole. Abstract ... 72
Sulfathiazole, The *in-vitro* susceptibility of pneumococci to sulfapyridine and. Abstract ... 72
—, Wound-healing phenomena of sulfanilamide and. Abstract ... 70
Sulfonamide compounds, The mechanism of action of the. Abstract ... 69
— drugs, Use of, in the preservation of stored blood and plasma. Abstract 268
— inhibitions, The fundamental mechanism of, in luminous bacteria. Abstract ... 70
Sulfonamide-inhibitor-free media for pneumococci: Preliminary report. Abstract ... 774
Sulfonamide-resistant pneumococci, Occurrence of. Abstract ... 641
Sulfonamide testing, Experimental staphylococcus infections and their use in. Abstract ... 74
Sulfonamides, azochloramid, and wetting agents, The synergistic action of. Abstract ... 644
—, Comparison of *in-vitro* effectiveness of various, on 110 strains of *Staphylococcus aureus*. Abstract ... 74
—, Some recent advances in the pharmacology of the. Abstract ... 775
—, Studies on the action of, upon the bacterial cell. Abstract ... 75
—, The activity of various, against pneumococci made resistant to one of these drugs. Abstract ... 73
—, The local action of, in infected wounds. Abstract ... 72
—, The selective inhibition by, of certain enzymes of *Escherichia coli*. Abstract ... 68
—, wetting agents and azochloramid, The synergistic action of. Abstract ... 71
Sulfur oxidation, by *Thiobacillus thiooxidans* ... 141
Sulphur bacterium, Isolation and identification of a, from an industrial process. Abstract ... 37
Sullivan, Julia C., Jennison, M. W., and Tapley, G. O. Abstract ... 100
—, and Williams, John W. Abstract ... 34
Surface-active agents, A study of the effect of, on rabies virus. Preliminary report. Abstract ... 409
Survival rates of streptococci and pneumococci in daylight and darkness, Further observations on the. Studies on microorganisms in simulated room environments. VII ... 545
Swiss cheese, gassy, Microorganisms associated with. Abstract ... 46
Synergistic, The, action of sulfonamides, azochloramid, and wetting agents. Abstract ... 644
—, The, action of sulfonamides, wetting agents and azochloramid. Abstract 71
Syphilis, Basis of biologic false positives in serology of. Abstract ... 95

Taha, S. M. and Barker, H. A. ... 347
Takacs, William S., and Toomey, John A. Abstract ... 87
Tapley, G. O., Jennison, M. W., and Sullivan, Julia C. Abstract ... 100

Tarkow, L., Fellers, C. R., and Levine, A. S. Abstract 56
Temperature, An experimental study of the influence of, on the bactericidal activities of alcohols and phenols 521
—, The effect of, upon the growth and survival of myxoma, herpes and vaccinia viruses. Abstract 90
Terminology, The contrasting, of medical and botanical mycology. Abstract 776
Terrell, J. L. Abstract 123
Texas Branch, S. A. B. Proceedings 121
Thermophilic bacteria, A preliminary report upon aerobic decomposition of cellulose by. Abstract 777
— — isolated from paper pulp and paperboard. Abstract 113
Thiamin, Effects on *Escherichia coli* of adding, to vitamin-free culture medium. Abstract 15
Thiobacillus thiooxidans, The significance of fat in sulfur oxidation by 141
Thomas, Lewis, and Dingle, John H. Abstract 99
Thomas, Stanley, and Gaughran, E. R. L. Abstract 37
Thompson, R. L., and Coates, Margaret S. Abstract 90
Thompson, William R. Abstract 773
—, and Quigley, James J. Abstract 773
Tilden, Evelyn B. and Hudson, C. S. 527
Tilley, F. W. 521
Tissue toxicity, A method for determining the, of disinfectants. Abstract 641
Tittsler, Ralph P., Rogosa, Morrison, and Whittier, Earle O. Abstract 56
—, — and —. Abstract. (No abstract.) 648
Tobacco, Breeding, for resistance to mosaic. Abstract 272
— -mosaic virus, Formation of biologically active, in vivo, as affected by nitrogen supply. Abstract 646
—, Virginia flue-cured, The relationship between quality and bacterial flora of. Abstract 41
Tobler, Alice B., and Pinner, Max. Abstract 104
Toomey, John A., and Takacs, William S. Abstract 87
Toxic bacterial filtrates, The inactivation of, by Roentgen radiation. Abstract 75
Toxin, A soluble, produced by *Hemophilus influenzae*. Abstract 77
Toxins and toxin-like substances, Effects of tyrothricin and actinomycin A upon bacteriophage and bacterial. Abstract 10
—, bacterial, Influence of soaps on, as elicited by Shwartzman response. Abstract 54
— in the several phases of *Hemophilus pertussis*. Abstract 265
Toxoplasma infections in animals. Abstract. (No abstract.) 115
Treponema pallidum, Observations on the morphology of *Leptospira* and the Nichols' strain of, with the aid of the RCA electron microscope. Abstract 64
Trexler, P. C. Abstract 777
Tube method, Comparison of crystal-voilet antigen, thiosulphate antigen and the, in testing *S. pullorum* sera. Abstract 58
Tubercle bacilli, Demonstration of, by fluorescence microscopy. Abstract 267
— bacillus, The effect of aromatic iodine compounds on the growth and metabolism of. Abstract 31
Tuberculosis case-finding program among medical students at the George Washington University. Abstract 647
—, Electrophoretic analysis of the blood protein response in. Abstract 266
— infection in general hospitals, Risk of. Abstract 267

—, Laboratory aids in the diagnosis of, in the general hospital. Abstract... 774
—, Mechanism of immunity in. The fate of tubercle bacilli ingested by mononuclear phagocytes derived from normal and immunized animals. Abstract... 267
Tularemia, Latent feline, apparently responsible for a human infection. Abstract... 643
Tungsten micro-needles, The use of, in single cell isolation. Abstract... 777
Typhoid bacilli, Bacteriophage V form types of, in Texas. Abstract... 122
Typhus-antiserum neutralization test, A, in mice. Abstract... 92
Typhus, Further studies of European, in irradiated white mice. Abstract... 91
— vaccines, The immunizing value in guinea pigs of four types of. Abstract. 119
Tyrothricin, Effects of, and actinomycin A upon bacteriophage and bacterial toxins and toxin-like substances. Abstract... 10

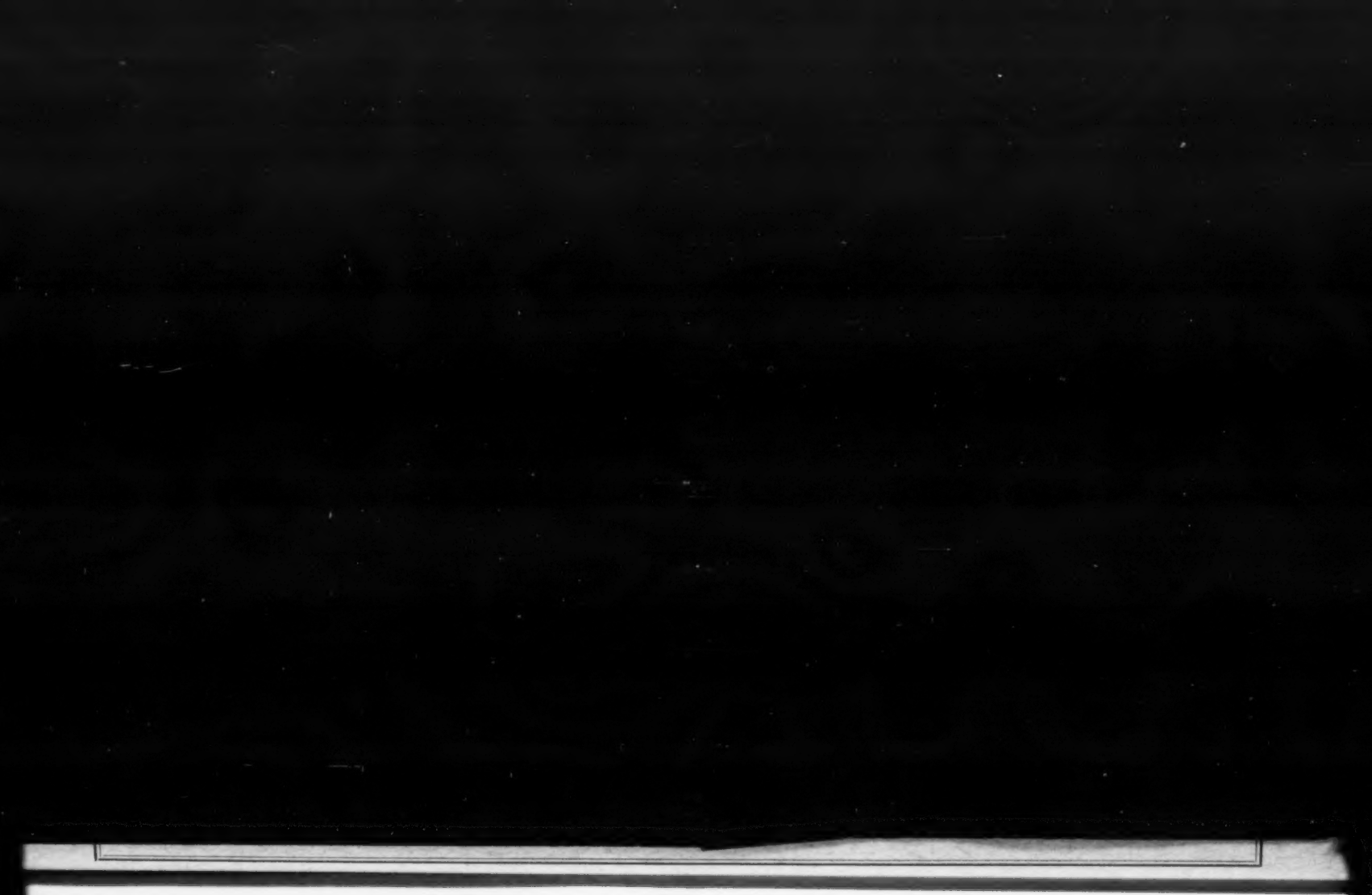
Ultrafiltration, A simple system of quantitative, in chemical analysis. Abstract... 773
Umbreit, W. W., Vogel, H. R., and Vogler, K. G... 141
Uric acid and some other purines, *Clostridium acidi-urici* and *Clostridium cylindrosporum*, organisms fermenting... 291

Vaccination with the Vole acid-fast bacillus in England, and disease control under war condition, Observations on field trials of. Abstract. (No abstract.)... 270
Vaccine virus and immune serum, The effect of separate inoculation of, on the protective test. Abstract... 642
Vacuum, The effect of a, on the destruction of bacteria by germicides. Abstract... 52
Valleau, W. D. Abstract... 272
—, Diachun, Stephen and Johnson, E. M. Abstract... 271
van Dyke, H. B., Alture-Werber, E., Rake, Geoffrey, and Walker, H. A. Abstract... 645
VanKesteren, Mary, Bibby, Basil G. and Berry, George Packer... 573
Vaughn, R., Mrak, E. M. and Phaff, H. J... 689
Veal, J. Ross, and Klepser, Roy G. Abstract... 72
Verwey, W. F. Abstract... 74
Viability of young bacterial cells at low temperatures, Ageing without reproduction and the... 749
Vibrio rubicundus, n.sp., A pink-red formate-utilizing organism from a trickling filter. Abstract... 61
Virus of poliomyelitis, Studies on the isolation of the, from cases and contacts in a small localized outbreak of acute anterior poliomyelitis. Abstract... 87
—, Production of experimental influenza in mice by means of exposure to airborne, and its prevention by propylene glycol vapor. Abstract... 648
Viruses, Recent advances in the study of. Abstract. (No abstract.)... 409
—, The comparative response of young and adult animals and fowls to certain, applied to the injured skin. Abstract... 776
Vitamin acceleration, Two aspects of "Balloon Bodies": their role and. Abstract... 15
— C, Bacterial decomposition of. Abstract... 643
Vogel, H. R., Umbreit, W. W., and Vogler, K. G... 141
Vogler, K. G., Umbreit, W. W., and Vogel, H. R... 141
Vole acid-fast bacillus, A study of the, its bacteriology, serology and significance. Abstract. (No abstract.)... 270

— — —, Observations on field trials of vaccination with the, in England, and disease control under war condition. Abstract. (No abstract.) 270
Waksman, Selman A., and Woodruff, H. Boyd. Abstract 9
Walker, H. A., Alture-Werber, E., Rake, Geoffrey, and van Dyke, H. B. Abstract 645
Walter, William G. Abstract 114
Walton, Seth T. Abstract 15
Ward, Robert, and Sabin, Albert B. Abstract 86
Warren, Joel 211
Warren, Stafford L., Carpenter, Charles M., Stokinger, Herbert E., and Ackerman, Helen. Abstract 75
Washington Branch, S. A. B. Proceedings 269, 646
Water, The sanitary significance of pectin-fermenting coliform bacteria in. Abstract 103
Weaver, R. H., Gottron, Elizabeth M., and Scherago, M. Abstract 61
—, Kass, Edward H., and Scherago, M. Abstract 30
—, Mandia, James, and Scherago, M. Abstract 59
—, McFadden, D. B., and Scherago, M. Abstract 103
—, Schreiber, Minnie, and Scherago, M. Abstract 272
Weber, George R., and Levine, Max. Abstract 53
Weil's disease, Distribution of, in the United States and methods of diagnosis in man, dogs, and rodents. Abstract 66
Weiser, Harry H. Abstract 46
Wells, William Firth. Abstract 30
Welsch, Maurice. Abstract 10
West, Robert A., Jr., Lewis, Keith H., and Militzer, Walter E. 155
Wetmore, Psyche W., and Coburn, Don R. Abstract. (No abstract.) 646
Wheat flour, Bactericidal and fungicidal properties of a crystalline protein hydrochloride isolated from. Abstract 14
Wheeler, C. M., and Douglas, J. R. Abstract 120
Wheeler, Kenneth N. Abstract. (No abstract.) 644
White, Edwin C., and Hill, Justina H. Abstract 12
Whittier, Earle O., Tittsler, Ralph P., and Rogosa, Morrison. Abstract 56
—, — and —. Abstract. (No abstract.) 648
Whooping-cough, Preliminary results in intradermal testing for susceptibility to, with agglutinogen of phase I *H. pertussis*. Abstract 79
Whooping cough prophylaxis, A laboratory evaluation of a combined antigen for diphtheria and. Abstract 81
Wichelhausen, Ruth H. Abstract 65
Wickerham, Lynferd J. Abstract 42
Williams, C. C., Highlands, Matthew E., and Williams, O. B. Abstract 39
Williams, John W., and Southworth, Warren H. Abstract 16
—, and Sullivan, Julia C. Abstract 34
Williams, O. B., Highlands, Matthew E., and Williams, C. C. Abstract 39
—, and Reed, J. M. Abstract 39
Williams, Roger D., Feinstone, W. Harry, and Florestano, H. J. Abstract. 75
Wilson, J. B., and Lee, S. B. Abstract 7
— and Wilson, P. W. 329
Wilson, P. W., and Burris, R. H. Abstract 7
—, Lee, Sylvan B., and Burris, Robert H. Abstract 60
— and Wilson, Joe B. 329
Wilson-Blair medium in the rapid diagnosis of the clostridia of gas gangrene. 685
Woodruff, H. Boyd, and Waksman, Selman A. Abstract 9

Woodward, C. R., Jr., and Stokes, J. L. 253
Woolley, D. W. Abstract 5
Wound-healing phenomena of sulfanilamide and sulfathiazole. Abstract 70
Wynne, E. S., Rode, L. J., and Hayward, A. E. Abstract 121
Wyss, Orville, and Schmelkes, Franz C. Abstract 62, 71, 644

X-ray sensitivity, Significant differences in, among various species and strains of yeasts. Abstract 119

Yale, M. W. Abstract. (No abstract.) 115
Yeast, Carbon assimilation of. Abstract 120
—, Distillery, A continuous process for the production of pure-culture. Abstract 42
—, Media for the production of distillery yeast by the continuous process. Abstract 270
—, The effect of pH and temperature on the fermentation rate of. Abstract. 270
Yeasts, Growth factor requirements for osmophilic. Abstract 18
— occurring on dates 689
—, Significant differences in x-ray sensitivity among various species and strains of. Abstract 119
—, The response of some, to five different growth factors. Abstract 17
Young, Raymond M. Abstract 643
Youngner, Julius S., and Nungester, W. J. Abstract 94

Zappasodi, Peter, and Lurie, Max B. Abstract 267
Zichis, Joseph, Shaughnessy, H. J., Piszczek, Edw. A., and Levinson, Sidney O. Abstract 87
Zimmerman, Alice, Stuart, C. A., Baker, Muriel, and Rustigian, Robert 557
Zirkle, Raymond E. Abstract 119